To:

Thomas R. Sancken

Attn: Bill Raffensperger

From:

Kenneth R. Lang

By: Terry McCleary

Subject:

Pavement Recommendations*

K

Date:

August 11, 2004

FAP 326 (IL 47)

Section (111 CS)W & RS-2,I

Grundy County P93-058-02 D3# 1514

Five pavement cores were taken for the above project between Chapin Street and Main Street. Four cores were taken in the outside lane and one core was taken in the painted median just off of the centerline of IL 47. Two of the four cores were taken in the southbound lane and the other two in the northbound lane. Below are the core descriptions and our recommendations.

Core #1

SBL, 133' S. of Chapin Street, 2.25' east of the curb 1 3/4" Bituminous Surface Course (Slag) in Fair Condition 17 1/4"Bituminous Binder Course in Poor Condition, 80% completely stripped.

Core #2

=Bill R

AUG 12 ZODA

S&P ENG ENVIRONMENT ESTIMATOR GEOMETRICS HYDRAULIC

PLANS ENG

SBL, 127' S. of Jackson Street, 7' east of the curb

1 1/4" Bituminous Surface Course (Slag) in Good Condition

1 3/4" Bituminous Binder Course in Good Condition

1 3/8" Bituminous Binder Course in Good Condition

2 1/8" Bituminous Binder Course in Good Condition

3 1/8"Bituminous Binder Course in Good Condition

2 1/2" Bituminous Binder Course in Good Condition

2 1/4" Bituminous Binder Course in Good Condition

4 1/4" Bituminous Binder Course in Good Condition

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Core #3	NBL, 106' N. of Jackson Street, 34" west of the curb 1 ¼" Bituminous Surface Course (Slag), Very Porous 3 ½" Bituminous Binder Course in Good Condition 5 ½" Bituminous Binder Course in Good Condition 8 ¼" Bituminous Binder Course in Good Condition
Core #4	NBL, 139' N. of Chapin Street, 7.5' west of the curb 1 ¼" Bituminous Surface Course (Slag) in Good Condition 2 ¾" Bituminous Binder Course in Good Condition 13 ½"Bituminous Binder Course in Good Condition
Core #5	Median, 93' N. of Jackson Street, 3' west IL 47 centerline 1 ¼" Bituminous Surface Course (Slag) in Good Condition 2 ¼" Bituminous Binder Course in Good Condition 3 ¾" Bituminous Binder Course in Good Condition 6 ½" Bituminous Binder Course in Good Condition 4 ¼" Bituminous Binder Course in Good Condition

We have resurfaced this portion of IL 47 numerous times over the last eight years. We have tried very hardy mixes, slag mix, and the pavement is still rutting under the traffic load. The vehicles are braking coming down the hill from the north and off the bridge from the south. In the opposite lanes, they are accelerating to get up the hill to the north and over the bridge to the south. We recommend milling and overlaying with concrete. The thickness of bituminous removal is contingent on proposed grade changes and PCC thickness.

TLM:lw/PVTIL47



